

Data Engineering Program Support for HLA

Briefing for AMG-18

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Topics to be Covered

- **Common Semantics and Syntax (CSS) Development Update**
 - Current (Phase 1) Analyses
 - Future (Phase 2) Analyses
 - **DIF Development Update**
 - OMT DIF
 - FED DIF
 - **HLA Object Model Library (OML)**
 - Capabilities and development plan
 - Demonstration
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CSS Development - Phase 1

- **Real-time Platform-Level Reference (RPR) FOM**
 - Mappings of DoD Data Standards to RPR FOM, Version 0.1.4 available at <http://stds.sc.ist.ucf.edu/docref/rpr-fom/>
 - Updates to RPR FOM, Version 0.1.5 underway
 - Comparison with CMMS Verb Dictionary contents underway
 - **HLA C2 Experiment FOM**
 - Currently mapping DoD Data Standards to Joint Training Federation protofederation
 - Will be participating in the building of the C2 Experiment FOM
 - **Engineering Federation FOM**
 - Preliminary analysis of DoD Data Standards to Engineering Protofederation FOM complete
 - Updating analysis to Engineering Federation FOM
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CSS Development - Phase 2

- **Aggregate-Level Simulations**
 - Initial contact made with Anita Zabek (MITRE)
- **Analysis Simulations**
 - Initial contact made with LTC Terry Prosser (PA&E)
- **T&E Range Simulations**
 - Initial contact made with George Rumford

Data Interchange Formats

- **Object Model Template (OMT) DIF**
 - An interchange specification for FOMs and SOMs
 - Used for FOM/SOM interchange
 - among OMDTs
 - between an OMDT and the OML
 - Updated to comply with OMT Version 1.1
 - **Federation Execution Data (FED) DIF**
 - An interchange specification for RTI Initialization Data (RID) governed by the IF Spec
 - Will be supported by the OMDTs
 - Can be used by initialization tools, stealths, loggers, etc.
 - Analysis of IF Spec FED requirements and F.0 FED files underway
 - Information on STOW FED files requested
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HLA OML Support to the FEDEP

- **Make FOMs and SOMs accessible to anyone**
 - FOMs and SOMs for specific applications
 - Reference FOMs
 - **Support the reuse FOMs and SOMs**
 - **Provide pieces and parts for the creation of new FOMs and SOMs**
 - **Provide a basis for the comparison of semantic differences between/among multiple FOMs and SOMs**
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HLA OML Functional Capabilities

- **Searching multiple across FOMs/SOMs**
 - for classes, attributes, interactions, etc.
 - **Registration of OM Library users**
 - Required to check in models to the OM Library
 - **Storage & retrieval of FOMs/SOMs in OMT DIF**
 - **Automated FOM/SOM interchange with OMDTs**
 - **Online documentation**
 - OM Library Usage Procedures
 - OMT & OM Library Structure References
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HLA OM Library Architecture

- **WWW-based application**
 - **Frames based interface (Internet Explorer 3, Netscape 3 compatible)**
 - **Non-frames based interface (Internet Explorer 2, Netscape 2 compatible)**
 - **Centralized database (currently MS Access)**
 - **Exports/imports OMT files to/from AEgis and TASC OMDTs**
 - **Direct links via AEgis and TASC OMDTs**
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Using the OM Library

- **URL <http://www.omlibrary.epgc4i.com>
(208.145.129.5)**
 - **FOM/SOM check-out**
 - Download OMT file and save to local file system
 - **FOM/SOM check-in (2 steps)**
 - Upload OMT file to FTP server (anonymous login)
 - Check FOM/SOM into the library
 - **Automated interface via AEgis and TASC OMDTs**
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HLA Object Model Library Demonstration

Project Plan

- **Alpha release - 25 March 97**
 - uses OMT DIF 1.0
 - **Pre-beta release - 9 April 97**
 - will use OMT DIF 1.1
 - **Beta-release - ~ 15 May 97**
 - incorporate alpha tester feedback
 - **Future releases**
 - Security for on-line registration
 - Capabilities to update and delete FOMs and SOMs
 - Browse capabilities
 - Updates for OMT changes
 - Server-based Oracle RDBMS
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Questions

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